

CLEAN COPY OF AMENDED CLAIMS 1, 6, 7, AND 10

1. (twice amended) A claw pole type actuator of a single-phase structure, comprising:

a stator yoke composed of a pair of substantially circular planar yokes formed of a soft magnetic material, a number N of polar teeth which axially protrude from inner peripheral edges of the respective planar yokes and which are disposed to face each other, extending in an axial direction, and a cylindrical ring provided on outer peripheral edges one of said planar yokes;

an armature being constituted by installing a coil formed by winding a magnetic wire in a coil receiving section shaped like an annular recess formed by said planar yokes, said polar teeth, and said cylindrical ring of said stator yoke;

a rotor being concentrically disposed within the stator yoke and being adapted for repetitive rotational movement within a set angular range in response to energization of said coil, and wherein said rotor is further adapted to be held in a rotational position by a detent torque when said coil is deenergized, said rotor having a magnet, said magnet having a number N of magnetic poles; and

a stator assembly which has flanges with bearing provided on both end surfaces of said armature and in which said rotor being installed to face said polar teeth of said stator with a minute gap provided therebetween;

wherein a number of said polar teeth equals the number N of rotor magnetic poles.

6. (amended) An actuator according to Claim 1, wherein a groove or a cut for destroying magnetic balance is provided in an axial direction on a central portion of either a south pole or north pole of said magnet.

7. (amended) An actuator according to Claim 1, wherein extensions of said polar teeth in a circumferential direction are all the same and stay within a range of 220/N to 260/N degrees at central angle.

10. (amended) An actuator according to Claim 1, wherein a relationship between said detent torque Td (Nm) and a rated torque Trate (Nm) is as follows: $\text{Trate}/4 \leq Td \leq 3\text{Trate}/4$ where Trate denotes a maximum torque value obtained when a rated current is passed, and detent torque Td denotes a maximum torque when a coil is in a deenergization mode.